ECAT FOUNDATION

External quality Control for Assays and Tests

With a focus on Thrombosis and Haemostasis

REPORT

SURVEY 2025-L1
Lupus Anticoagulant
Labcode 1492

Date of Issue : 12-May-2025

Survey : 2025-L1

Report : Lupus Anticoagulant

Note:
In the Survey Manual 2025 detailed information is given regarding the ECAT external quality assessment programme , including the statistical evaluation and explanation of the report.
This Survey Manual 2025 should be considered as an integral part of this survey report.
Please notice the information regarding the homogeneity of samples used and the between-laboratory variation in the paragraph on the statistical evaluation of the Survey Manual.

General Information

Exclusion of results
Results < [value] or > [value] are excluded from the statistical analysis. When other results (e.g. deviating results) are excluded from the statistical analysis, these results are placed between brackets.

Lupus Anticoagulant
When selecting the unit seconds; all results should be reported in seconds and not partly in ratios; e.g. the result for the ECAT sample, the result for normal plasma and the result for MRI.

Antiphospholipid Antibodies
Please be aware of the selection of the correct unit for the method group “ IL Acustar / INOVA Quanta Flash". Since there is a difference in the order of magnitude between the results of the "IL Acustar / INOVA Quanta Flash" method group and the other methods, it is expressed in the report as CU/mL instead of U/mL.

Complaints
Any complaints regarding this survey report should be reported to the ECAT before **June 24th, 2025**. Complaints received after this date will not be taken into consideration.

This report is authorized by:

Dr. M.J. van Essen-Hollestelle
Programme Expert

Note: The current Survey Manual can be downloaded from the 'Participant Area' of the ECAT website. Login and select the option 'View Documents'.

ECAT Foundation

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Registration number with the Chamber of Commerce (KvK) Gouda : 41174102
General terms of delivery are applicable to all our services.

Lupus Anticoagulant

Screening

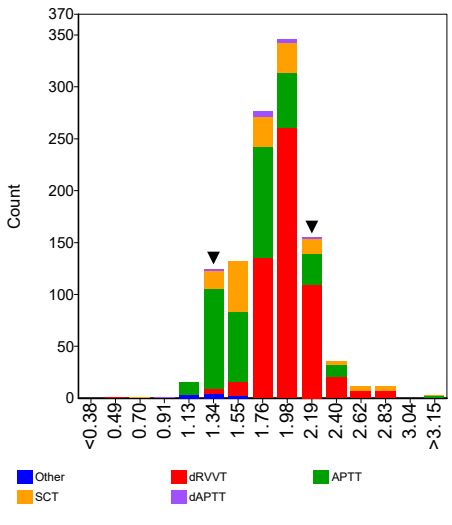
Sample No 25.67
Sample Details Plasma positive for Lupus Anticoagulant (LA Ratio approx. 1.7)
Prior Use Prior Use: None
Unit Ratio
Expiry Date 30-November-2026
Homogeneity 0.0 %
Homogeneity Parameter LA ratio
Number of Participants 628
Number of Responders 583
Response Rate 93 %

Assay	Elevated	Not elevated	Borderline	No Classification
APTT	418	8	0	15
dAPTT	13	1	0	0
dPT	5	1	0	0
dRVVT	599	0	0	26
KCT	4	0	0	0
Other	2	0	0	0
PNP	3	0	0	0
PT	4	3	0	0
SCT	148	0	0	9

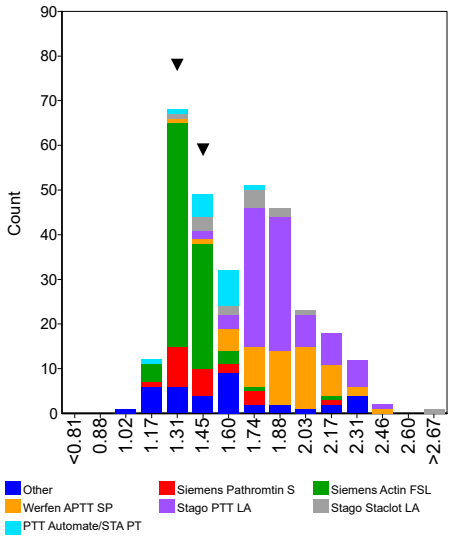
Assay	Your classification								
	Screening 1			Screening 2			Screening 3		
	TS1	TS2	TS3						
APTT	Elevated	Not elevated							
dAPTT									
dPT									
dRVVT			Elevated						
KCT									
Other									
PNP									
PT									
SCT									

Ratio Normal Plasma	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	379	1.67	19.4	1.07 - 3.58	1	1.45	-0.70	1.38	-0.89		
Hyphen-Biomed Cephen LS	13	2.18	7.5	1.93 - 2.36							
Precision Biologic CRYOcheck Hex LA Star	5	2.24		1.76 - 2.33							
Roche aPTT Lupus	6	1.40		1.16 - 1.59							
Siemens Actin FS	6	1.23		1.20 - 1.24							
Siemens Actin FSL	87	1.36	7.0	1.15 - 2.13	1			1.38	0.26		
Siemens Pathromtin SL	22	1.43	14.5	1.22 - 2.23	1	1.45	0.05				
Stago PTT Automate/STA PTT	16	1.51	6.9	1.24 - 1.69							
Stago PTT LA	87	1.87	8.6	1.46 - 2.42							
Stago Staclot LA	14	1.70	15.8	1.30 - 3.58							
Tcoag TriniClot Automated APTT	6	1.54		1.45 - 1.61							
Werfen APTT SP	52	1.91	11.5	1.36 - 2.50							
Werfen HemosIL SynthAsil	37	1.71	7.7	1.44 - 1.95							
Werfen MixCon	14	1.71	4.7	1.59 - 1.80							
dAPTT	12	1.73	18.3	1.00 - 2.09							
Stago PTT LA	8	1.86		1.74 - 2.09							
dRVVT	555	1.98	8.8	0.50 - 2.88	1					2.16	1.06
Hyphen Biomed Hemoclot LA-S	8	2.71		2.52 - 2.88							
Precision Biologic LA check	6	2.29		2.07 - 2.73							
Roche Lupus S	11	2.16	8.6	1.89 - 2.41							
Siemens LA1 screen	222	2.01	7.7	1.28 - 2.74	1					2.16	0.93
Stago DRVVT screen	78	1.93	7.9	1.56 - 2.37							
Technoclone LA Screen	6	2.12		1.84 - 2.24							
Werfen HemosIL dRVVT screen	217	1.93	7.9	0.50 - 2.76							
PT	6	1.26		1.15 - 1.29							
SCT	152	1.78	18.2	0.70 - 3.86							
Werfen SCT screen	151	1.77	18.1	0.70 - 2.92							

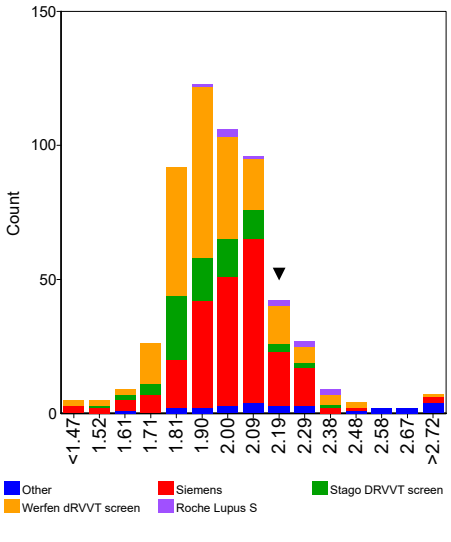
Assays



APTT



DRVVT

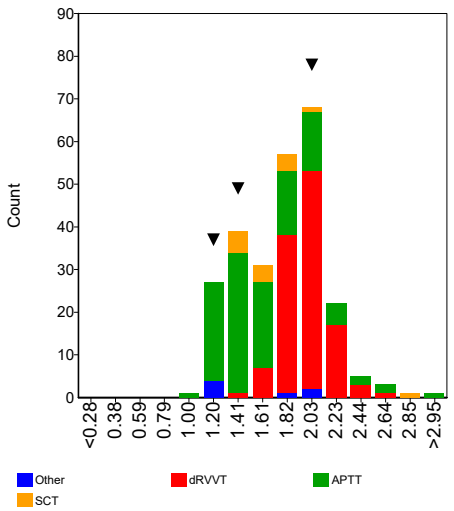


Lupus Anticoagulant

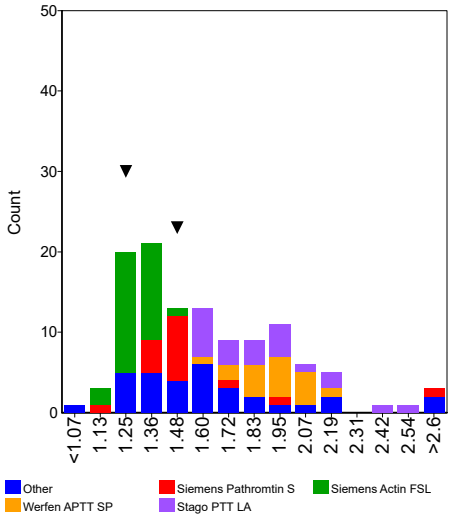
Screening

Ratio MRI	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	116	1.60	21.3	0.95 - 3.58	1	1.45	-0.44	1.30	-0.88		
Siemens Actin FSL	30	1.30	5.8	1.13 - 1.44	1			1.30	-0.03		
Siemens Pathromtin SL	16	1.47	8.0	1.18 - 2.62	1	1.45	-0.21				
Stago PTT LA	21	1.85	13.5	1.60 - 2.49							
Werfen APTT SP	17	1.93	9.0	1.58 - 2.22							
Werfen HemosIL SynthAsil	8	1.66		1.44 - 1.91							
dRVVT	117	1.98	8.3	1.37 - 2.64	1					1.99	0.11
Roche Lupus S	6	2.07		2.00 - 2.24							
Siemens LA1 screen	68	2.00	7.4	1.37 - 2.64	1					1.99	-0.02
Stago DRVVT screen	12	1.90	7.7	1.71 - 2.08							
Werfen HemosIL dRVVT screen	25	1.92	8.9	1.63 - 2.26							
SCT	15	1.67	14.0	1.37 - 2.79							
Werfen SCT screen	15	1.67	14.0	1.37 - 2.79							

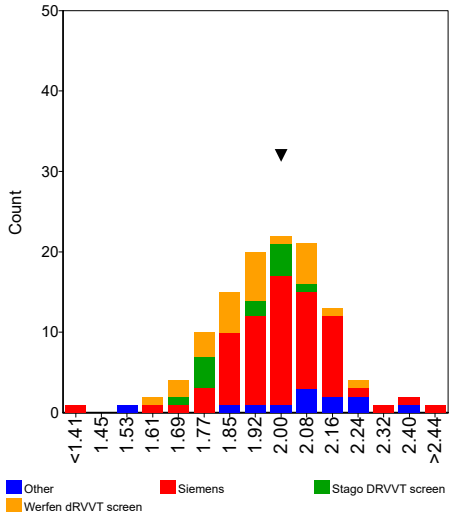
Assays



APTT



DRVVT



Comments

Several participants selected the wrong unit, e.g. ratio while the result was likely to be in seconds. Other participants reported their result for the ECAT plasma in seconds while the result for their mean of the reference interval (MRI) was reported as a ratio. One participant reported a negative result for their reference plasma.
In all these cases the ratio between the ECAT plasma and the laboratories own reference plasma could not be correctly calculated. Therefore all these results were excluded from the statistical analysis.

The majority of performed screening tests (approx. 99%) were classified as prolonged. In general, comparable results were observed for the ratio ECAT plasma over Normal Plasma and ratio ECAT plasma over Mean Reference Interval (MRI).

Lupus Anticoagulant

Mixing (screening)

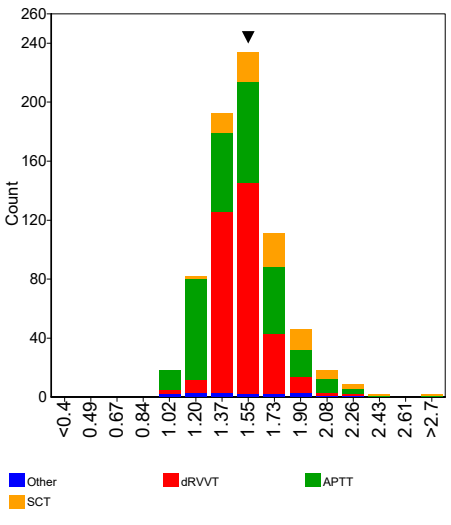
Sample No 25.67
Sample Details Plasma positive for Lupus Anticoagulant (LA Ratio approx. 1.7)
Prior Use Prior Use: None
Unit Ratio
Expiry Date 30-November-2026
Homogeneity 0.0 %
Homogeneity Parameter LA ratio
Number of Participants 628
Number of Responders 422
Response Rate 67 %

Assay	Elevated	Not elevated	Borderline	No Classification
APTT	267	35	0	8
dAPTT	12	1	0	0
dPT	2	0	0	0
dRVVT	347	7	0	7
KCT	2	0	0	0
Other	0	1	0	0
PNP	0	0	0	0
PT	0	3	0	0
SCT	85	0	0	1

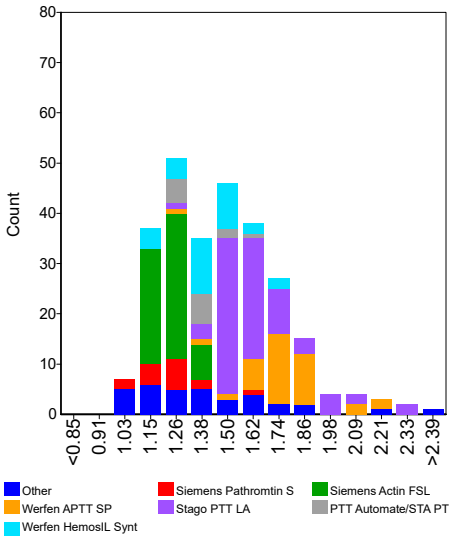
Assay	Your classification								
	Mixing 1			Mixing 2			Mixing 3		
			TS3						
APTT									
dAPTT									
dPT									
dRVVT			Elevated						
KCT									
Other									
PNP									
PT									
SCT									

Ratio Normal Plasma	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	281	1.47	18.5	1.06 - 3.00							
Hyphen-Biomed Cephen LS	11	1.89	8.9	1.60 - 2.08							
Siemens Actin FS	5	1.07		1.06 - 1.11							
Siemens Actin FSL	59	1.23	6.0	1.10 - 1.44							
Siemens Pathromtin SL	15	1.22	10.1	1.08 - 1.67							
Stago PTT Automate/STA PTT	14	1.36	6.8	1.24 - 1.58							
Stago PTT LA	79	1.60	7.9	1.32 - 2.36							
Tcoag TriniClot Automated APTT	6	1.37		1.32 - 1.50							
Werfen APTT SP	37	1.76	7.4	1.29 - 2.20							
Werfen HemosIL SynthAsil	32	1.41	10.1	1.14 - 1.80							
Werfen MixCon	8	1.65		1.06 - 1.87							
dAPTT	9	1.69		1.43 - 2.05							
Stago PTT LA	8	1.65		1.43 - 1.87							
dRVVT	333	1.50	8.1	1.03 - 2.26	1					1.60	0.79
Roche Lupus S	6	1.45		1.18 - 2.26							
Siemens LA1 screen	157	1.50	8.2	1.10 - 1.95	1					1.60	0.79
Stago DRVVT screen	54	1.45	5.3	1.33 - 2.10							
Werfen HemosIL dRVVT screen	101	1.53	8.0	1.03 - 2.06							
SCT	83	1.69	15.0	1.21 - 3.86							
Werfen SCT screen	82	1.69	14.8	1.21 - 2.44							

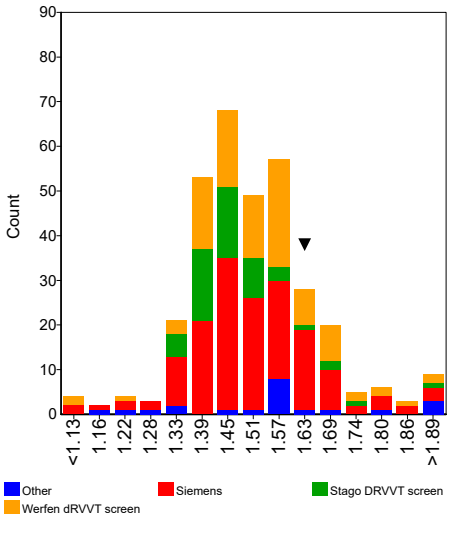
Assays



APTT



DRVVT

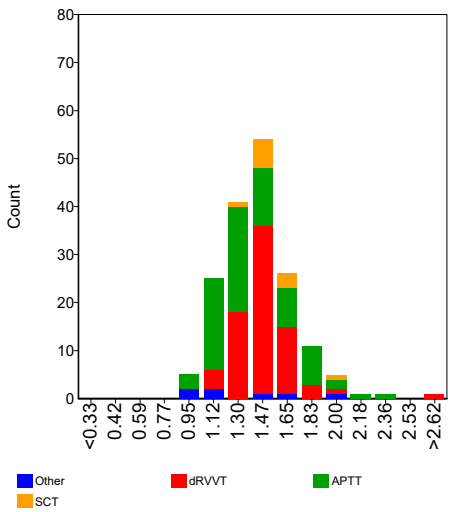


Lupus Anticoagulant

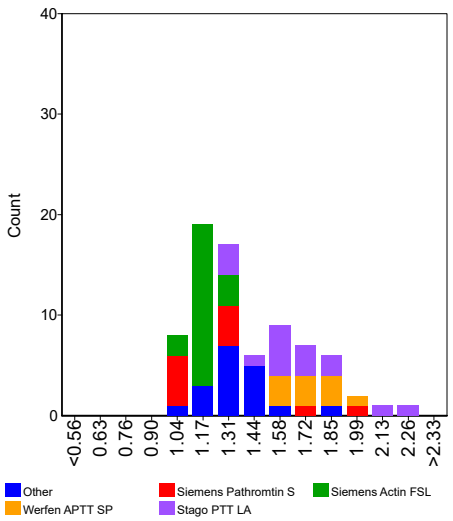
Mixing (screening)

Ratio MRI	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	76	1.40	20.6	1.00 - 2.29							
Siemens Actin FSL	21	1.19	4.1	1.00 - 1.37							
Siemens Pathromtin SL	11	1.24	18.3	1.03 - 1.96							
Stago PTT Automate/STA PTT	5	1.35		1.27 - 1.50							
Stago PTT LA	16	1.61	14.9	1.27 - 2.29							
Werfen APTT SP	10	1.76	9.0	1.53 - 2.02							
Werfen HemosIL SynthAsil	6	1.41		1.13 - 1.54							
dRVVT	76	1.47	10.6	1.13 - 2.67							
Roche Lupus S	5	1.44		1.15 - 1.51							
Siemens LA1 screen	44	1.48	10.9	1.13 - 1.89							
Stago DRVVT screen	7	1.40		1.28 - 1.51							
Werfen HemosIL dRVVT screen	16	1.50	14.2	1.21 - 2.67							
SCT	11	1.51	11.8	1.24 - 2.04							
Werfen SCT screen	11	1.51	11.8	1.24 - 2.04							

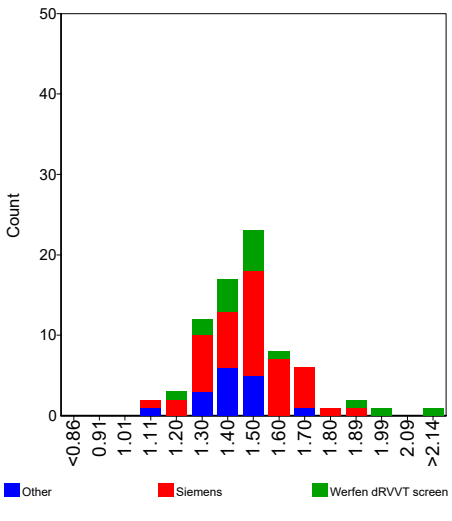
Assays



APTT



DRVVT



Comments

Several participants selected the wrong unit, e.g. ratio while the result was likely to be in seconds. Other participants reported their result for the ECAT plasma in seconds while the result for their mean of the reference interval (MRI) was reported as a ratio. All these results were excluded from the statistical analysis.

The majority of performed mixing screening tests (94%) were classified as elevated.

In general, comparable results were observed for the ratio ECAT plasma over Normal Plasma and ratio ECAT plasma over Mean Reference Interval (MRI).

Lupus Anticoagulant

Confirmation

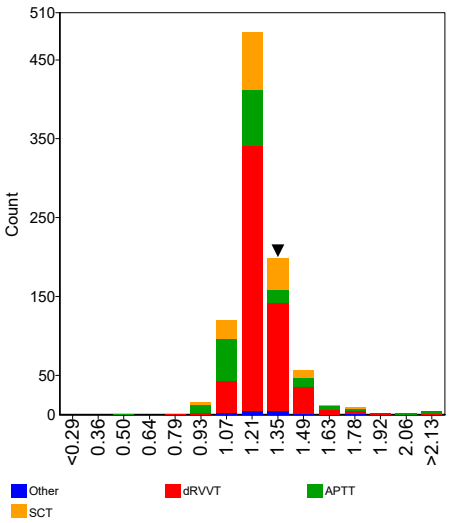
Sample No 25.67
Sample Details Plasma positive for Lupus Anticoagulant (LA Ratio approx. 1.7)
Prior Use Prior Use: None
Unit Ratio
Expiry Date 30-November-2026
Homogeneity 0.0 %
Homogeneity Parameter LA ratio
Number of Participants 628
Number of Responders 579
Response Rate 92 %

Assay	Elevated	Not elevated	Borderline	No Classification
APTT	97	97	0	27
dAPTT	6	2	0	1
dPT	6	1	0	0
dRVVT	463	98	0	69
Other	1	0	0	0
PNP	10	1	0	0
SCT	87	46	0	24

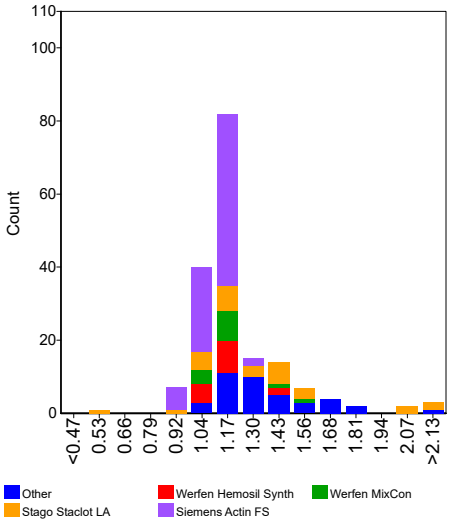
Assay	Your classification								
	Confirmation 1			Confirmation 2			Confirmation 3		
			TS3						
APTT									
dAPTT									
dPT									
dRVVT			Elevated						
Other									
PNP									
SCT									

Ratio Normal Plasma	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	177	1.19	12.4	0.53 - 2.81							
Hyphen Biomed Cephen	7	1.24		1.13 - 1.29							
Precision Biologic CRYOcheck Hex LA Cor	5	1.29		1.22 - 1.37							
Siemens Actin FS	78	1.12	8.3	0.95 - 1.30							
Stago Staclot LA	30	1.30	21.2	0.53 - 2.81							
Stago/Roche PTT LA	7	1.48		1.21 - 1.81							
Werfen Hemosil SynthAFax	16	1.14	6.4	1.03 - 1.46							
Werfen MixCon	14	1.13	6.7	1.02 - 1.53							
dAPTT	6	1.19		1.11 - 1.82							
dPT	5	1.30		1.10 - 1.40							
dRVVT	563	1.26	7.2	0.80 - 3.09	1					1.29	0.41
Hyphen Biomed Hemoclot LA-C	8	1.33		1.26 - 1.37							
Precision Biologic LA sure	5	1.23		1.09 - 1.53							
Roche Lupus C	10	1.30	7.3	1.15 - 1.44							
Siemens LA2 confirmation	226	1.24	5.5	0.98 - 3.09	1					1.29	0.84
Stago DRVVT Confirm	76	1.20	4.7	1.02 - 1.53							
Technoclone LA Confirm	6	1.22		1.16 - 1.28							
Werfen HemosIL dRVVT confirm	226	1.30	8.0	0.80 - 1.98							
SCT	152	1.24	8.8	0.95 - 1.79							
Werfen HemosIL SCT confirm	152	1.24	8.8	0.95 - 1.79							

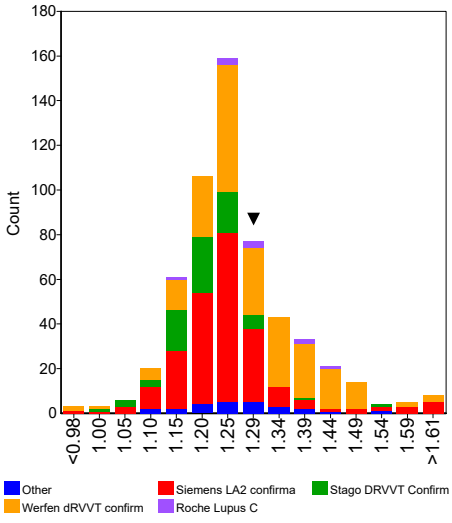
Assays



APTT



DRVVT

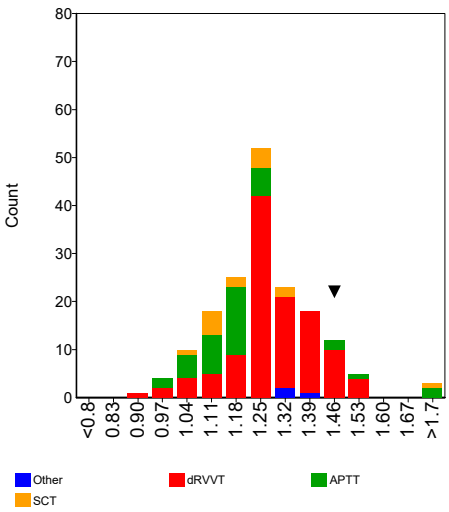


Lupus Anticoagulant

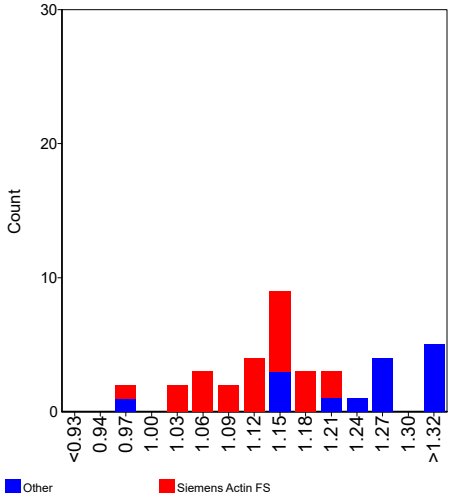
Confirmation

Ratio MRI	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	40	1.17	9.2	0.97 - 2.81							
Siemens Actin FS	24	1.13	5.8	0.97 - 1.21							
Stago Staclot LA	5	1.27		1.15 - 2.81							
dRVVT	113	1.29	8.5	0.92 - 1.56	1					1.44	1.39
Roche Lupus C	5	1.28		1.22 - 1.36							
Siemens LA2 confirmation	69	1.30	9.9	0.92 - 1.56	1					1.44	1.10
Stago DRVVT Confirm	12	1.19	9.8	1.00 - 1.34							
Werfen HemosIL dRVVT confirm	23	1.31	5.6	1.07 - 1.42							
SCT	15	1.21	9.2	1.04 - 1.74							
Werfen HemosIL SCT confirm	15	1.21	9.2	1.04 - 1.74							

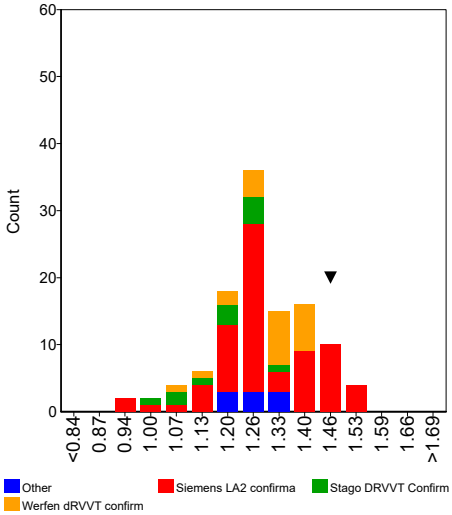
Assays



APTT



DRVVT



Comments

Several participants selected the wrong unit, e.g. ratio while the result was likely to be in seconds or vice versa. Other participants reported their result for the ECAT plasma in seconds while the result for their reference plasma or the mean of the reference interval was reported as a ratio or vice versa. In all these cases the ratio between the ECAT plasma and the laboratories own reference plasma and/or the mean of the reference interval could not be correctly calculated.
Some participants reported also a confirmation result in Delta Seconds. However the difference in clotting time between the screen and confirmation test (or reagent 1 and reagent 2) should be reported in the interpretation section. All these results were excluded from the statistical analysis.

The majority of performed confirmation tests (73%) were classified as elevated, in particularly elevated results were observed for the dRVVT assay (83%).

In general, comparable results were observed for the ratio ECAT plasma over Normal Plasma and ratio ECAT plasma over Mean Reference Interval (MRI).

Lupus Anticoagulant

Mixing (confirm)

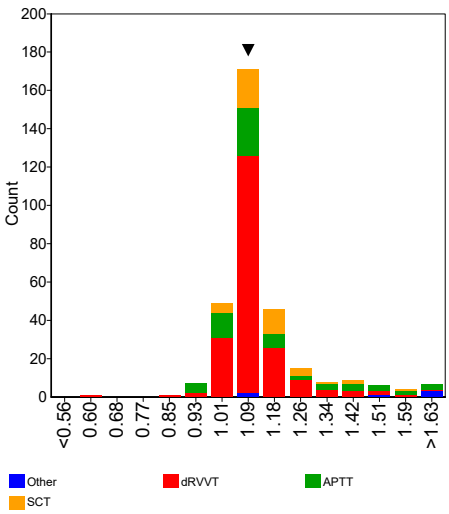
Sample No 25.67
Sample Details Plasma positive for Lupus Anticoagulant (LA Ratio approx. 1.7)
Prior Use Prior Use: None
Unit Ratio
Expiry Date 30-November-2026
Homogeneity 0.0 %
Homogeneity Parameter LA ratio
Number of Participants 628
Number of Responders 228
Response Rate 36 %

Assay	Elevated	Not elevated	Borderline	No Classification
APTT	27	41	0	4
dAPTT	6	1	0	1
dPT	0	0	0	0
dRVVT	68	145	0	12
PNP	1	0	0	0
SCT	16	31	0	2

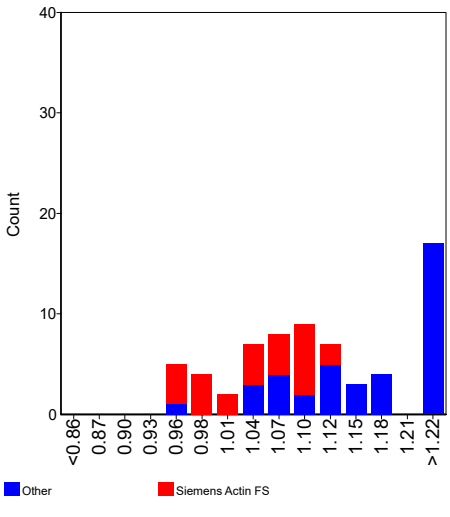
Assay	Your classification								
	Mixing 1			Mixing 2			Mixing 3		
			TS3						
APTT									
dAPTT									
dPT									
dRVVT			Not elevated						
PNP									
SCT									

Ratio Normal Plasma	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	67	1.15	14.0	0.96 - 2.23							
Siemens Actin FS	27	1.04	5.8	0.96 - 1.13							
Werfen Hemosil SynthAFax	6	1.14		1.04 - 1.55							
Werfen MixCon	6	1.16		1.03 - 1.30							
dAPTT	5	1.74		1.13 - 2.05							
dRVVT	205	1.10	4.8	0.57 - 1.91	1					1.12	0.38
Siemens LA2 confirmation	104	1.10	4.6	0.57 - 1.91	1					1.12	0.44
Stago DRVVT Confirm	28	1.09	4.0	1.04 - 1.45							
Werfen HemosIL dRVVT confirm	62	1.11	6.5	0.81 - 1.54							
SCT	46	1.14	7.6	0.98 - 1.57							
Werfen HemosIL SCT confirm	46	1.14	7.6	0.98 - 1.57							

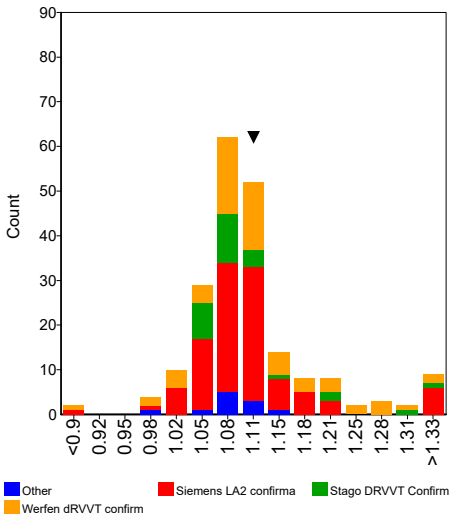
Assays



APTT



DRVVT

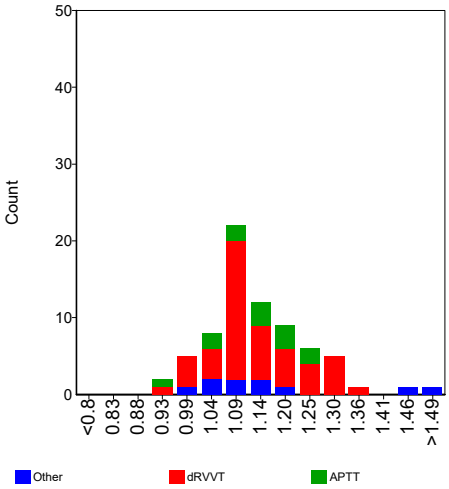


Lupus Anticoagulant

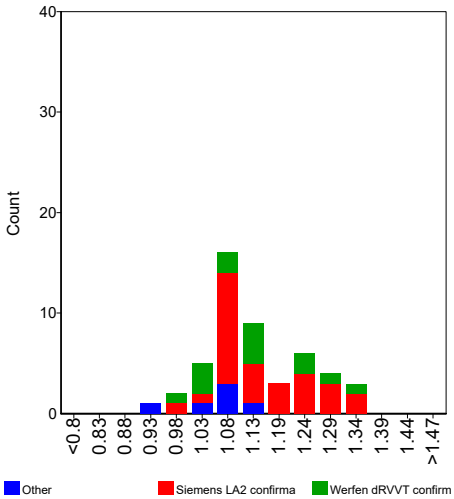
Mixing (confirm)

Ratio MRI	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	13	1.14	8.6	0.95 - 1.27							
Siemens Actin FS	7	1.11		0.95 - 1.20							
dRVVT	49	1.13	9.1	0.94 - 1.34							
Siemens LA2 confirmation	29	1.15	9.0	0.98 - 1.34							
Werfen HemosIL dRVVT confirm	14	1.13	9.8	0.99 - 1.32							
SCT	7	1.12		1.03 - 1.20							
Werfen HemosIL SCT confirm	7	1.12		1.03 - 1.20							

Assays



DRVVT



Comments

Several participants selected the wrong unit, e.g. ratio while the result was likely to be in seconds or vice versa. Other participants reported their result for the ECAT plasma in seconds while the result for their reference plasma or the mean of the reference interval was reported as a ratio or vice versa. In all these cases the ratio between the ECAT plasma and the laboratories own reference plasma and/or the mean of the reference interval could not be correctly calculated. All these results were excluded from the statistical analysis.

The majority of performed mixing confirmation tests (65%) were classified as not elevated.

In general, comparable results were observed for the ratio ECAT plasma over Normal Plasma and ratio ECAT plasma over Mean Reference Interval (MRI).

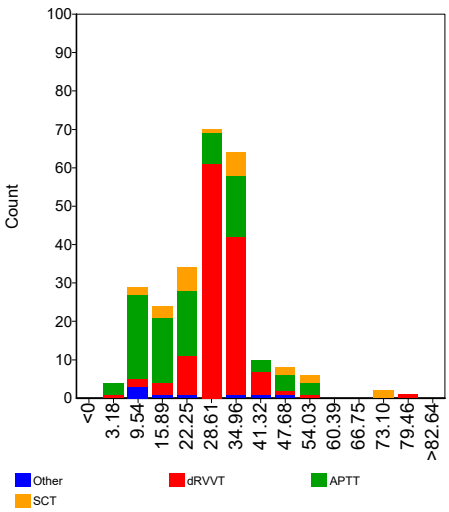
Lupus Anticoagulant

Interpretation

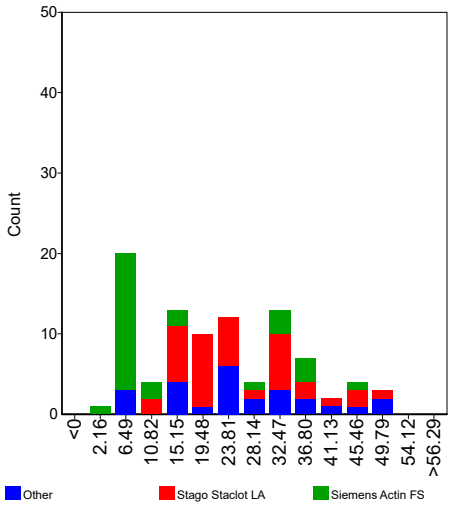
Delta Seconds

	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	93	21.78	61.6	3.00 - 51.30							
Precision Biologic CRYOcheck Hex LA Cor	6	42.65		32.80 - 51.00							
Siemens Actin FS	30	14.78	93.6	3.00 - 45.40							
Stago Staclot LA	38	24.33	41.4	9.00 - 51.30							
dRVVT	127	30.43	15.7	2.30 - 82.20							
Siemens LA2 confirmation	70	31.22	16.2	12.50 - 82.20							
Stago DRVVT Confirm	9	29.20		13.20 - 35.40							
Werfen HemosIL dRVVT confirm	42	29.82	13.2	2.30 - 38.20							
SCT	24	31.55	54.0	9.00 - 75.40							
Werfen HemosIL SCT confirm	24	31.55	54.0	9.00 - 75.40							

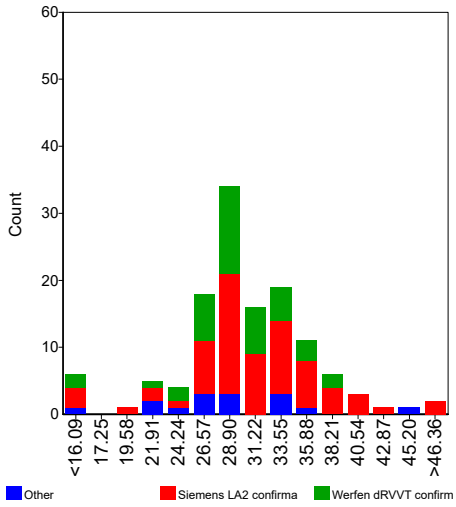
Assays



APTT



DRVVT



Comments

It is not clear whether all results submitted for Delta Seconds reflect in all cases the difference in clotting time between the screen and confirmation test (or reagent 1 and reagent 2).

Please submit for Delta Seconds only the value which is the difference in clotting time between the screen and confirmation test (or difference between reagent 1 and reagent 2).

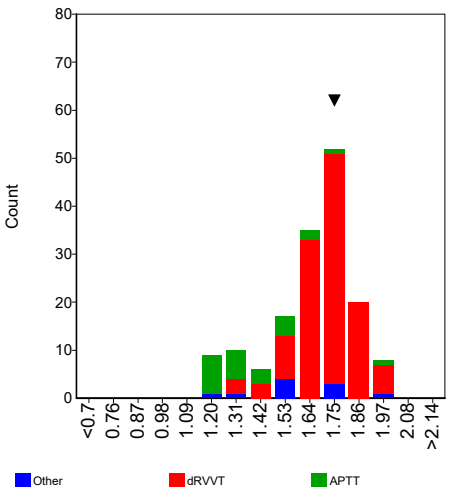
Lupus Anticoagulant

Interpretation

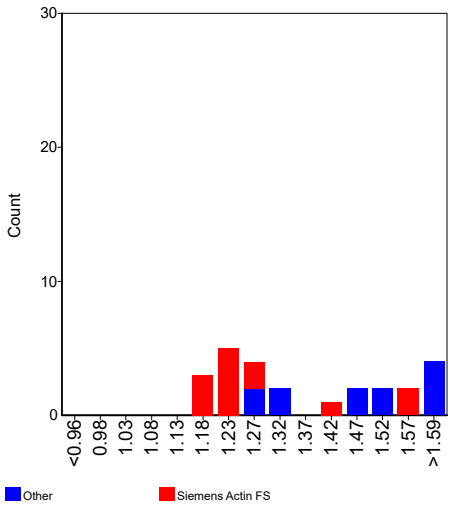
Ratio Screen/Confirmation - Standard

	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	25	1.38	13.8	1.20 - 1.99							
Siemens Actin FS	13	1.28	8.1	1.20 - 1.58							
dRVVT	122	1.71	6.9	1.27 - 2.00	1					1.71	-0.03
Siemens LA2 confirmation	88	1.72	6.5	1.31 - 2.00	1					1.71	-0.09
Stago DRVVT Confirm	11	1.65	4.8	1.54 - 1.80							
Werfen HemosIL dRVVT confirm	13	1.69	8.3	1.27 - 1.85							
SCT	7	1.70		1.25 - 2.14							
Werfen HemosIL SCT confirm	7	1.70		1.25 - 2.14							

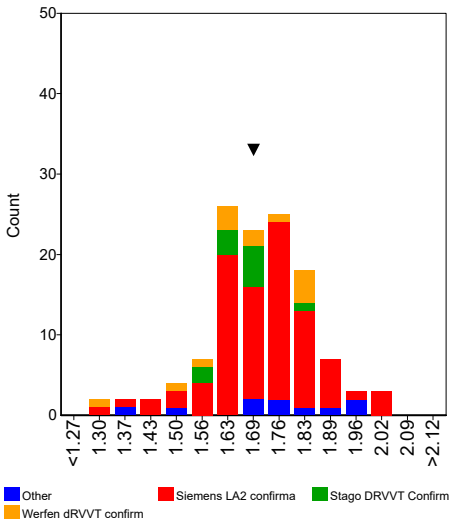
Assays



APTT



DRVVT



Comments

The following participants reported deviating results which were excluded from the statistical analysis:

269: 0.15
296A (instr.1): 32.5
296A (instr.2): 34.9
271: 8.8
1447: 0
1725: 53.88

Some participants did not indicate which type of ratio screen/confirmation they reported (standard ratio or normalised ratio). These results have been excluded from the statistical analysis. **Don't forget to select the type of ratio in the next survey.**

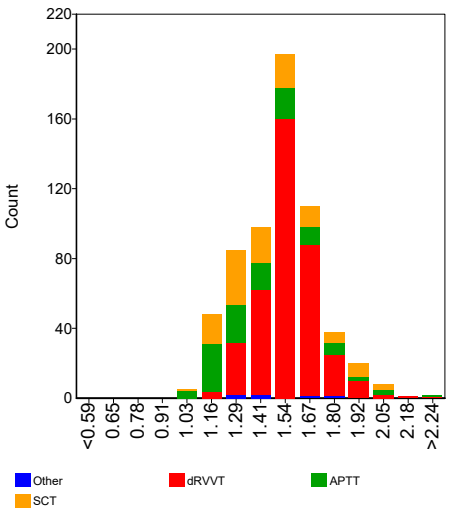
Lupus Anticoagulant

Interpretation

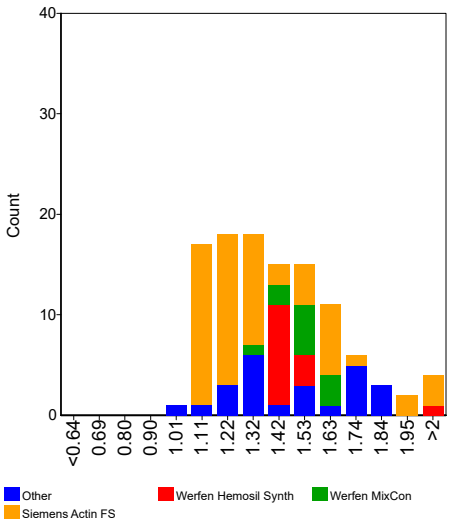
Ratio Screen/Confirmation - Normalised

	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	110	1.40	17.4	1.00 - 2.36							
Siemens Actin FS	61	1.32	17.1	1.08 - 2.36							
Stago/Roche PTT LA	5	1.48		1.19 - 1.81							
Werfen Hemosil SynthAFax	14	1.47	2.5	1.41 - 2.02							
Werfen MixCon	11	1.51	6.7	1.36 - 1.64							
dRVVT	379	1.56	8.4	1.12 - 2.30							
Hyphen Biomed Hemoclot LA-C	8	2.01		1.84 - 2.30							
Roche Lupus C	7	1.64		1.51 - 1.69							
Siemens LA2 confirmation	121	1.62	7.6	1.12 - 1.90							
Stago DRVVT Confirm	57	1.57	5.9	1.27 - 1.94							
Werfen HemosIL dRVVT confirm	178	1.50	7.3	1.18 - 1.91							
SCT	117	1.45	16.0	1.03 - 2.10							
Werfen HemosIL SCT confirm	117	1.45	16.0	1.03 - 2.10							

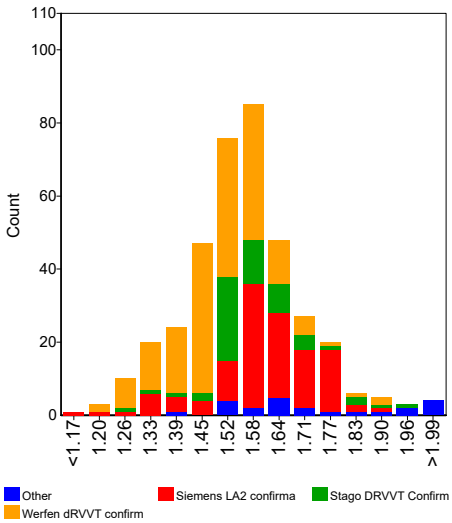
Assays



APTT



DRVVT



Comments

The following participants reported deviating results which were excluded from the statistical analysis:

4560: 16.3
4561 (instr.2): 16.7

Some participants did not indicate which type of ratio screen/confirmation they reported (standard ratio or normalised ratio). These results have been excluded from the statistical analysis. **Don't forget to select the type of ratio in the next survey.**

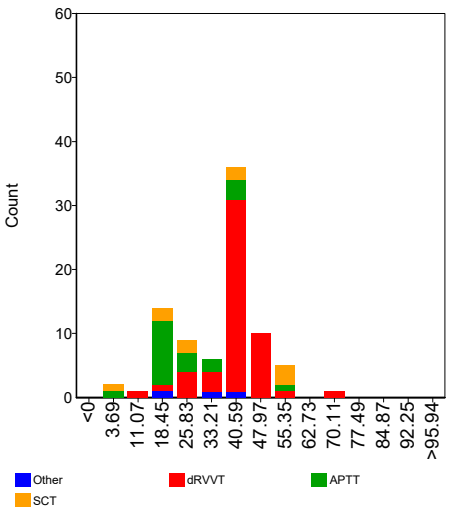
Lupus Anticoagulant

Interpretation

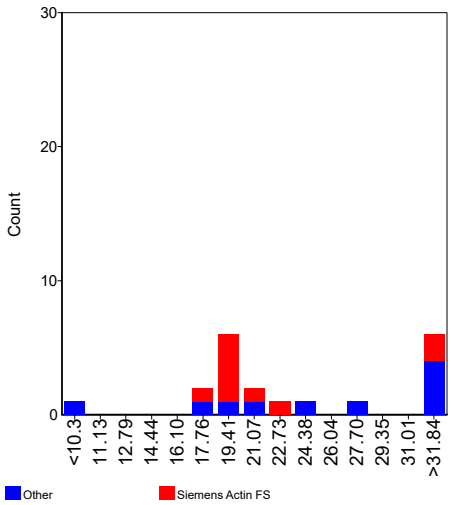
Percentage Correction - Standard

	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	20	25.20	41.6	1.67 - 54.00							
Siemens Actin FS	10	21.07	17.0	18.00 - 37.00							
dRVVT	51	41.42	11.8	10.60 - 69.00							
Siemens LA2 confirmation	33	42.43	9.2	24.06 - 53.33							
Stago DRVVT Confirm	7	38.98		34.89 - 41.96							
Werfen HemosIL dRVVT confirm	9	42.33		10.60 - 69.00							
SCT	10	34.79	58.6	4.60 - 58.70							
Werfen HemosIL SCT confirm	10	34.79	58.6	4.60 - 58.70							

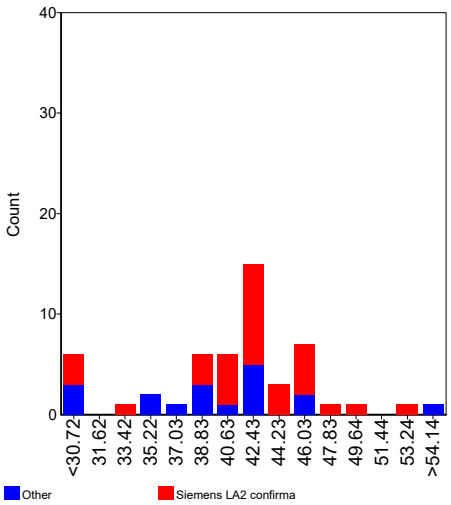
Assays



APTT



DRVVT



Comments

Some participants did not indicate which type of correction they have reported (standard correction or normalised correction). These results have been excluded from the statistical evaluation. Don't forget to select the type of correction in the next survey.

It is not clear whether all results submitted for the parameter Percentage Correction are expressed in percentage. Please, report in future surveys the results for this parameter in the correct unit (%).

The following participant reported deviating results which were excluded from the statistical analysis:

9907615 (panel 1): 0%

9907615 (panel 2): 0%

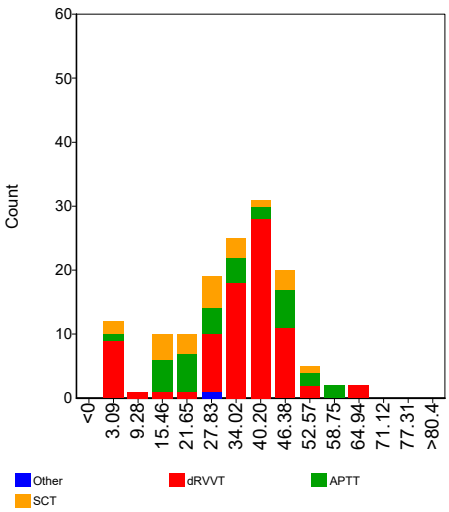
Lupus Anticoagulant

Interpretation

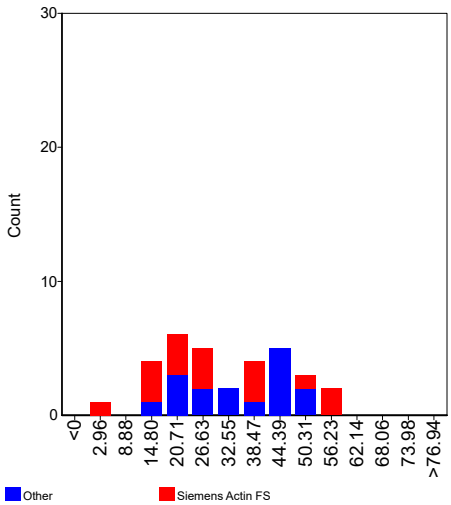
Percentage Correction - Normalised

	n	assigned value	CV (%)	Range	Test System	Panel 1	Z-score	Panel 2	Z-score	Panel 3	Z-score
APTT	32	32.27	46.6	1.28 - 59.00							
Siemens Actin FS	16	28.81	55.7	1.28 - 59.00							
dRVVT	82	36.11	26.3	1.22 - 65.00							
Siemens LA2 confirmation	36	39.06	12.0	1.22 - 65.00							
Stago DRVVT Confirm	10	38.83	22.4	1.60 - 49.20							
Werfen HemosIL dRVVT confirm	30	33.71	33.6	1.46 - 54.00							
SCT	22	27.56	49.4	1.37 - 53.60							
Werfen HemosIL SCT confirm	22	27.56	49.4	1.37 - 53.60							

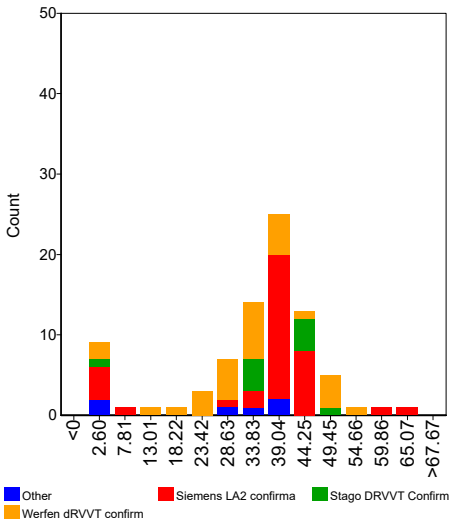
Assays



APTT



DRVVT



Comments

Some participants did not indicate which type of correction they have reported (standard correction or normalised correction). These results have been excluded from the statistical evaluation. Don't forget to select the type of correction in the next survey.

It is not clear whether all results submitted for the parameter Percentage Correction are expressed in percentage. Please, report in future surveys the results for this parameter in the correct unit (%).

Lupus Anticoagulant

Final Conclusion

Testing Strategies	Classification				Your Classification			
	Equivocal	LA detected	LA not detected	No conclusion	Test System	Panel 1	Panel 2	Panel 3
Screen test only	0	16	0	2	1			
					2			
					3			
Screen and mixing test	2	67	1	18	1			
					2			
					3			
Screen and confirm test	10	420	20	4	1			
					2			
					3			
Screen, mixing and confirm test	2	290	16	1	1			LA detected
					2			
					3			
Screen, confirm, mixing test	4	170	12	0	1			
					2			
					3			
Mixing - confirmation	0	37	1		1			
					2			
					3			

Final Conclusion				Your Results		
Counts				Test System 1	Test System 2	Test System 3
LA detected	LA not detected	Equivocal	No Conclusion			
500	3	6	2	LA detected		

Comments

The sample used in this survey was plasma from a patient diagnosed with Lupus Anticoagulant (LA Ratio = approx. 1.70). No other types of inhibitors were present.

In total 509 participants gave a final conclusion. Of the participants who gave a final conclusion, approximately 98% classified the sample as positive. One percent classified the sample as borderline. Thus, the majority of the participants correctly classified this sample as positive.

Lupus Anticoagulant

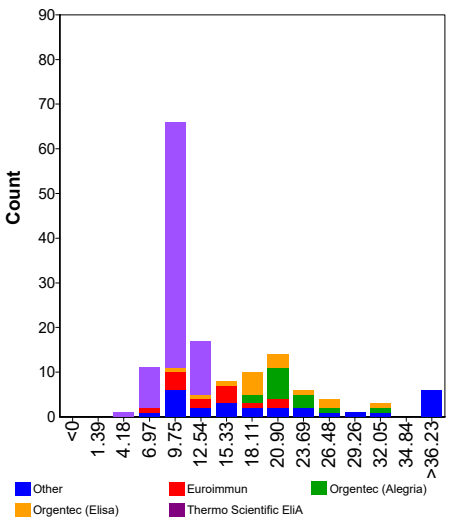
AntiCardiolipin Antibodies IgG

Sample No	25.67
Sample Details	Plasma positive for Lupus Anticoagulant (LA Ratio approx. 1.7)
Prior Use	Prior Use: None
Unit	GPL, U/mL, µg/mL, CU/mL
Expiry Date	30-November-2026
Homogeneity	0.0 %
Homogeneity Parameter	LA ratio
Number of Participants	628
Number of Responders	239
Response Rate	38 %

Classification	Negative	Borderline	Low Positive	Medium Positive	High Positive	No Conclusion
Total	63	19	59	58	44	1

IgG	n	assigned value	CV (%)	range	Test System 1 Result	z-score	Test System 2 Result	z-score	Test System 3 Result	z-score
U/mL, µg/mL, GPL/MPL	147	13.5	44.8	5.0 - 160.0						
Aeskulisa Diagnotic GmbH	7	21.0		6.3 - 51.4						
Euroimmun	14	13.9	35.0	8.0 - 21.2						
Orgentec (Alegria)	14	21.8	14.4	16.8 - 31.8						
Orgentec (Elisa)	15	19.6	28.1	10.7 - 33.4						
Thermo Scientific EliA	77	9.8	14.2	5.0 - 13.0						
Werfen INOVA Quanta Lite	6	14.0		10.1 - 18.3						
CU/mL	87	77.6	10.7	60.0 - 91.9						
Werfen Acustar / INOVA Quanta Flash	85	77.6	10.4	60.0 - 91.7						

GPL, U/mL, µg/mL



Comments

A positive classification has been observed by the majority of participants.

A heterogeneous pattern in the classification has been observed.

Almost all participants using the method Biorad Bioplex reported a result higher than the upper limit of their method (>112 or >160).

The following participant reported a deviating result which was excluded from the statistical analysis:

1353 : 1.07 (ratio)

Lupus Anticoagulant

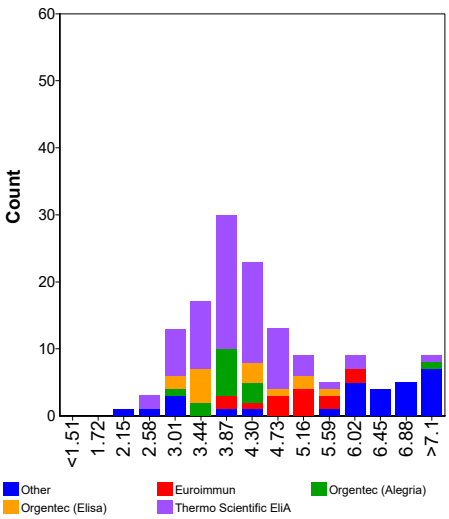
AntiCardiolipin Antibodies IgM

Sample No	25.67		
Sample Details	Plasma positive for Lupus Anticoagulant (LA Ratio approx. 1.7)		
Prior Use	Prior Use: None		
Unit	MPL, U/mL, µg/mL, CU/mL		
Expiry Date	30-November-2026		
Homogeneity	0.0 %	**Homogeneity Parameter**	LA ratio
Number of Participants	628		
Number of Responders	230	**Response Rate**	37 %

Classification	Negative	Borderline	Low Positive	Medium Positive	High Positive	No Conclusion
Total	230	2	1	1	0	1

IgG	n	assigned value	CV (%)	range	Test System 1 Result	z-score	Test System 2 Result	z-score	Test System 3 Result	z-score
U/mL, µg/mL, GPL/MPL	144	4.5	27.2	2.3 - 18.0						
Aeskulisa Diagnotic GmbH	7	3.0		2.3 - 18.0						
Biorad Bioplex	8	6.5		6.0 - 7.0						
Euroimmun	14	5.0	14.2	3.8 - 5.8						
Orgentec (Alegria)	14	4.0	9.3	3.2 - 7.4						
Orgentec (Elisa)	15	4.0	20.9	2.9 - 5.8						
Thermo Scientific EliA	71	4.0	17.5	2.7 - 14.0						
CU/mL	84	8.1	10.2	5.2 - 10.0						
Werfen Acustar / INOVA Quanta Flash	83	8.1	10.2	5.2 - 10.0						

MPL, U/mL, µg/mL



Comments
Most of the participants reported a negative classification.

The following participants reported deviating results which were excluded from the statistical analysis:
1353 : 0.37 (ratio)
9907155: 0 U/mL

Lupus Anticoagulant

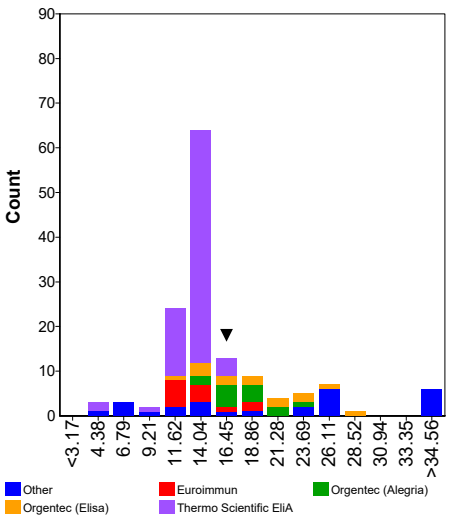
ß2-Glycoprotein I Antibodies IgG

Sample No	25.67		
Sample Details	Plasma positive for Lupus Anticoagulant (LA Ratio approx. 1.7)		
Prior Use	Prior Use: None		
Unit	U, U/mL, µg/mL, CU/mL		
Expiry Date	30-November-2026		
Homogeneity	0.0 %	**Homogeneity Parameter**	LA ratio
Number of Participants	628		
Number of Responders	233	**Response Rate**	37 %

Classification	Negative	Borderline	Low Positive	Medium Positive	High Positive	No Conclusion
Total	25	6	65	52	88	1

IgG	n	assigned value	CV (%)	range	Test System 1 Result	z-score	Test System 2 Result	z-score	Test System 3 Result	z-score
U, U/mL, µg/mL	141	14.7	23.8	4.2 - 160.0	16.2	0.43				
Aeskulisa Diagnotic GmbH	7	10.0		5.0 - 27.0						
Euroimmun	13	13.5	21.4	10.7 - 18.1						
Orgentec (Alegria)	14	17.8	16.6	13.5 - 23.6						
Orgentec (Elisa)	14	18.9	27.7	11.5 - 28.6	16.2	-0.51				
Thermo Scientific EliA	74	13.3	9.7	4.2 - 17.0						
Werfen INOVA Quanta Lite	7	26.7		19.0 - 27.0						
CU/mL	87	309.7	13.7	193.6 - 440.6						
Werfen Acustar / INOVA Quanta Flash	84	308.8	13.6	193.6 - 440.6						

U, U/mL, µg/mL



Comments

A positive classification has been observed by the majority of participants.

A heterogeneous pattern in the classification has been observed.

Almost all participants using the method Biorad Bioplex reported a result higher than the upper limit of their method (>112 or >160).

The following participant reported a deviating result which was excluded from the statistical analysis:

174 : 13 CU/mL

Lupus Anticoagulant

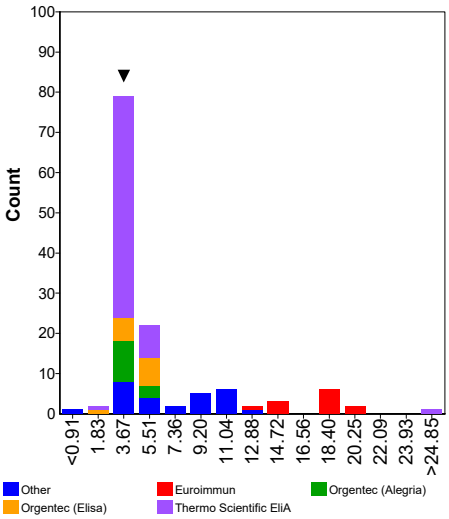
ß2-Glycoprotein I Antibodies IgM

Sample No	25.67		
Sample Details	Plasma positive for Lupus Anticoagulant (LA Ratio approx. 1.7)		
Prior Use	Prior Use: None		
Unit	U, U/mL, µg/mL, CU/mL		
Expiry Date	30-November-2026		
Homogeneity	0.0 %	**Homogeneity Parameter**	LA ratio
Number of Participants	628		
Number of Responders	215	**Response Rate**	34 %

Classification	Negative	Borderline	Low Positive	Medium Positive	High Positive	No Conclusion
Total	213	4	1	1	0	0

IgG	n	assigned value	CV (%)	range	Test System 1 Result	z-score	Test System 2 Result	z-score	Test System 3 Result	z-score
U, U/mL, µg/mL	131	4.6	34.1	0.0 - 31.0	3.4	-0.76				
Aeskulisa Diagnotic GmbH	7	4.7		3.0 - 9.0						
Biorad Bioplex	8	10.7		9.6 - 12.0						
Euroimmun	12	17.3	14.7	13.0 - 20.2						
Orgentec (Alegria)	13	4.1	18.0	3.1 - 5.4						
Orgentec (Elisa)	14	4.3	26.2	2.6 - 6.1	3.4	-0.77				
Thermo Scientific EliA	65	3.9	16.8	2.6 - 31.0						
CU/mL	81	5.6	12.9	3.8 - 7.5						
Werfen Acustar / INOVA Quanta Flash	80	5.6	12.8	3.8 - 7.5						

U, U/mL, µg/mL



Comments

Most of the participants reported a negative classification.

The following participant reported a deviating result which was excluded from the statistical analysis:

9907155: 0 U/mL